

Lys Ile Gly Lys Glu Phe Lys Arg Ile Val Gln Arg Ile Lys Asp Phe
145 150 155 160
Leu Arg Asn Leu Val Pro Arg Thr Glu Ser
165 170

<210> 3
<211> 103
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<213> Artificial Sequence

<220>
<223> cationic cathelin-like peptide

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<223> Xaa = Ala, Val or Thr

<221> VARIANT
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<223> Xaa = Leu or Pro

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<223> Xaa = Glu or Asp

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<223> Xaa = Gly, Arg, Asp or Gln

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<223> Xaa = Leu, Ile or Phe

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<223> Xaa = Glu or Gln

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<223> Xaa = Ser or Leu

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<223> Xaa = Glu, Ala or Thr

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<221> VARIANT
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<223> Xaa = Gln, Pro, Arg, Glu or Ala

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<223> Xaa = Lys, Thr, Gln or Asn

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<223> Xaa = Gly, Ala, Met or Asp

<221> VARIANT
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<223> Xaa = Asp or Glu

<221> VARIANT
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<223> Xaa = Gly, Glu or Val

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<223> Xaa = Lys or Arg

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<223> Xaa = Gln, Leu, Asp or Glu

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<223> Xaa = Ala or Thr

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<223> Xaa = Glu, Pro or Gln

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<223> Xaa = Asp, Ser or Ala

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<223> Xaa = Thr, Ile, Arg, Ala or Asn

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<223> Xaa = Gly, His or Asp

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<223> Xaa = Ser, Tyr or Gln

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<223> Xaa = Phe or Leu

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<223> Xaa = Arg, Phe or Lys

<221> VARIANT
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<223> Xaa = Phe, Ala, Arg or Lys

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Xaa Xaa Xaa Ser Tyr Xaa Xaa Ala Val Leu Arg Ala Xaa Xaa Xaa Xaa
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Asn Xaa Xaa Ser Xaa Xaa Xaa Asn Leu Tyr Arg Leu Leu Xaa Leu Xaa
20 25 30
Xaa Xaa Pro Xaa Xaa Xaa Xaa Asp Pro Xaa Xaa Xaa Lys Xaa Val Xaa
35 40 45
Phe Xaa Val Lys Glu Thr Val Cys Xaa Xaa Xaa Xaa Gln Xaa Xaa
50 55 60
Glu Xaa Cys Xaa Phe Lys Xaa Xaa Gly Xaa Val Lys Xaa Cys Xaa Gly
65 70 75 80
Xaa Val Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Asp Xaa Xaa Cys Xaa
85 90 95
Xaa Xaa Xaa Xaa Xaa Xaa
100

<210> 4
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<213> Artificial Sequence

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<223> spacer peptide

<400> 4
Gly Gly Gly Gly Ser
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<210> 5
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 <220>
 <223> linker moiety

 <400> 5
 Gly Gly Gly Gly Gly Ser Met Phe Gly Gly Ala Lys Lys Arg Ser
 1 5 10 15
 Gly Gly Gly Gly Gly Gly
 20

<210> 6
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 6
 tccgagctcg acgatgacga taagctgctg ggtgatttct tccgg 45

<210> 7
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 7
 ccgcgtcgagc taggactctg tcctgggtac aagattccg 39

<210> 8
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 8
 ccgcgtcgagc tactaggcaa atctcttggtt atcctt 36

<210> 9
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> recognition sequence

<400> 9
 Asp Asp Asp Asp Lys

1 5

<210> 10
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<223> consensus sequence

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<400> 10
Gln Xaa Val Xaa Gly
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<210> 11
<211> 172
<212> PRT
<213> Canis familiaris

<400> 11
Met Glu Thr Gln Lys Asp Ser Pro Ser Leu Gly Arg Trp Ser Leu Leu
1 5 10 15
Leu Leu Leu Leu Gly Leu Val Ile Thr Pro Ala Ala Ser Arg Ala Leu
20 25 30
Ser Tyr Arg Glu Ala Val Leu Arg Ala Val Asn Gly Phe Asn Gln Arg
35 40 45
Ser Ser Glu Glu Asn Leu Tyr Arg Leu Leu Gln Leu Asn Ser Gln Pro
50 55 60
Lys Gly Asp Glu Asp Pro Asn Ile Pro Lys Pro Val Ser Phe Thr Val
65 70 75 80
Lys Glu Thr Val Cys Pro Lys Thr Thr Gln Gln Pro Leu Glu Gln Cys
85 90 95
Gly Phe Lys Asp Asn Gly Leu Val Lys Gln Cys Glu Gly Thr Val Ile
100 105 110
Leu Asp Glu Asp Thr Gly Tyr Phe Asp Leu Asn Cys Asp Ser Ile Leu
115 120 125
Gln Val Lys Lys Ile Asp Arg Leu Lys Glu Leu Ile Thr Thr Gly Ala
130 135 140
Gln Lys Ile Gly Lys Lys Ile Arg Arg Ile Gly Gln Arg Ile Lys Asp
145 150 155 160
Phe Leu Lys Asn Leu Gln Pro Arg Glu Glu Lys Ser
165 170

<210> 12
<211> 172
<212> PRT
<213> Sus scrofa

<400> 12
Met Glu Thr Gln Arg Ala Ser Leu Cys Leu Gly Arg Trp Ser Leu Trp
1 5 10 15
Leu Leu Leu Leu Ala Leu Val Val Pro Ser Ala Ser Ala Gln Ala Leu
20 25 30

Ser Tyr Arg Glu Ala Val Leu Arg Ala Val Asp Arg Leu Asn Glu Gln
 35 40 45
 Ser Ser Glu Ala Asn Leu Tyr Arg Leu Leu Glu Leu Asp Gln Pro Pro
 50 55 60
 Lys Ala Asp Glu Asp Pro Gly Thr Pro Lys Pro Val Ser Phe Thr Val
 65 70 75 80
 Lys Glu Thr Val Cys Pro Arg Pro Thr Arg Gln Pro Pro Glu Leu Cys
 85 90 95
 Asp Phe Lys Glu Asn Gly Arg Val Lys Gln Cys Val Gly Thr Val Thr
 100 105 110
 Leu Asn Pro Ser Ile His Ser Leu Asp Ile Ser Cys Asn Glu Ile Gln
 115 120 125
 Ser Val Arg Arg Arg Pro Arg Pro Pro Tyr Leu Pro Arg Pro Arg Pro
 130 135 140
 Pro Pro Phe Phe Pro Pro Arg Leu Pro Pro Arg Ile Pro Pro Gly Phe
 145 150 155 160
 Pro Pro Arg Phe Pro Pro Arg Phe Pro Gly Lys Arg
 165 170

<210> 13
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 13
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 1 5 10 15
 Leu Leu Leu Gly Leu Val Met Pro Leu Ala Ile Ile Ala Gln Val
 20 25 30
 Leu Ser Tyr Lys Glu Ala Val Leu Arg Ala Ile Asp Gly Ile Asn Gln
 35 40 45
 Arg Ser Ser Asp Ala Asn Leu Tyr Arg Leu Leu Asp Leu Asp Pro Arg
 50 55 60
 Pro Thr Met Asp Gly Asp Pro Asp Thr Pro Lys Pro Val Ser Phe Thr
 65 70 75 80
 Val Lys Glu Thr Val Cys Pro Arg Thr Thr Gln Gln Ser Pro Glu Asp
 85 90 95
 Cys Asp Phe Lys Lys Asp Gly Leu Val Lys Arg Cys Met Gly Thr Val
 100 105 110
 Thr Leu Asn Gln Ala Arg Gly Ser Phe Asp Ile Ser Cys Asp Lys Asp
 115 120 125
 Asn Lys Arg Phe Ala Leu Leu Gly Asp Phe Phe Arg Lys Ser Lys Glu
 130 135 140
 Lys Ile Gly Lys Glu Phe Lys Arg Ile Val Gln Arg Ile Lys Asp Phe
 145 150 155 160
 Leu Arg Asn Leu Val Pro Arg Thr Glu Ser
 165 170

<210> 14
 <211> 173
 <212> PRT
 <213> Mus musculus

<400> 14
 Met Gln Phe Gln Arg Asp Val Pro Ser Leu Trp Leu Trp Arg Ser Leu
 1 5 10 15
 Ser Leu Leu Leu Leu Leu Gly Phe Ser Gln Thr Pro Ser Tyr

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Arg	Asp	Ala	Val	Leu	Arg	Ala	Val	Asp	Asp	Phe	Asn	Gln	Gln	Ser	Leu
	35	40	45												
Asp	Thr	Asn	Leu	Tyr	Arg	Leu	Leu	Asp	Leu	Asp	Pro	Glu	Pro	Gln	Gly
	50	55	60												
Asp	Glu	Asp	Pro	Asp	Thr	Pro	Lys	Ser	Val	Arg	Phe	Arg	Val	Lys	Glu
	65	70	75	80											
Thr	Val	Cys	Gly	Lys	Ala	Glu	Arg	Gln	Leu	Pro	Glu	Gln	Cys	Ala	Phe
	85	90	95												
Lys	Glu	Gln	Gly	Val	Val	Lys	Gln	Cys	Met	Gly	Ala	Val	Thr	Leu	Asn
	100	105	110												
Pro	Ala	Ala	Asp	Ser	Phe	Asp	Ile	Ser	Cys	Asn	Glu	Pro	Gly	Ala	Gln
	115	120	125												
Pro	Phe	Arg	Phe	Lys	Lys	Ile	Ser	Arg	Leu	Ala	Gly	Leu	Leu	Arg	Lys
	130	135	140												
Gly	Gly	Glu	Lys	Ile	Gly	Glu	Lys	Leu	Lys	Lys	Ile	Gly	Gln	Lys	Ile
	145	150	155	160											
Lys	Asn	Phe	Phe	Gln	Lys	Leu	Val	Pro	Gln	Pro	Glu	Gln			
	165	170													

<210> 15

<211> 176

<212> PRT

<213> Capra hircus

<400> 15

Met	Glu	Thr	Gln	Gly	Ala	Ser	Leu	Ser	Leu	Gly	Arg	Trp	Ser	Leu	Trp
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Leu	Leu	Leu	Leu	Gly	Leu	Val	Val	Pro	Leu	Ala	Ser	Ala	Gln	Ala	Leu
	20			25			30								
Ser	Tyr	Arg	Glu	Ala	Val	Leu	Arg	Ala	Val	Gly	Gln	Leu	Asn	Glu	Arg
	35			40			45								
Ser	Ser	Glu	Ala	Asn	Leu	Tyr	Arg	Leu	Leu	Glu	Leu	Asp	Pro	Ala	Pro
	50			55			60								
Asn	Asp	Glu	Val	Asp	Pro	Gly	Thr	Arg	Lys	Pro	Val	Ser	Phe	Thr	Val
	65			70			75			80					
Lys	Glu	Thr	Val	Cys	Pro	Arg	Thr	Thr	Gln	Gln	Pro	Pro	Glu	Glu	Cys
	85			90			95								
Asp	Phe	Lys	Glu	Asn	Gly	Leu	Val	Lys	Gln	Cys	Val	Gly	Thr	Val	Thr
	100			105			110								
Leu	Asp	Pro	Ser	Asn	Asp	Gln	Phe	Asp	Ile	Asn	Cys	Asn	Glu	Leu	Gln
	115			120			125								
Ser	Val	Arg	Phe	Arg	Pro	Pro	Ile	Arg	Arg	Pro	Pro	Ile	Arg	Pro	Pro
	130			135			140								
Phe	Asn	Pro	Pro	Phe	Arg	Pro	Pro	Val	Arg	Pro	Pro	Phe	Arg	Pro	Pro
	145			150			155			160					
Phe	Arg	Pro	Pro	Phe	Arg	Pro	Pro	Ile	Gly	Pro	Phe	Pro	Gly	Arg	Arg
	165			170			175								

<210> 16

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<223> consensus sequence

<400> 16
Met Glu Thr Gln Arg Ser Ser Leu Gly Arg Trp Ser Leu Leu Leu
1 5 10 15
Leu Gly Leu Val Pro Ala Ile Ala Gln Ala Leu Ser Tyr Arg Glu Ala
20 25 30
Val Leu Arg Ala Val Asp Asn Gln Arg Ser Ser Glu Ala Asn Leu Tyr
35 40 45
Arg Leu Leu Leu Asp Pro Pro Asp Glu Asp Pro Thr Pro Lys Pro Val
50 55 60
Ser Phe Thr Val Lys Glu Thr Val Cys Pro Arg Thr Thr Gln Gln Pro
65 70 75 80
Pro Glu Cys Asp Phe Lys Glu Asn Gly Leu Val Lys Gln Cys Gly Thr
85 90 95
Val Thr Leu Asn Pro Ser Phe Asp Ile Ser Cys Asn Glu Pro Gly Gln
100 105 110
Val Arg Arg Lys Ile Gly Arg Ile Gln Arg Ile Lys Phe Leu Pro Arg
115 120 125
Arg